AMENDMENTS TO THE CLAIMS

1-52. (Canceled)

- 53. (Withdrawn) A process comprising the steps of:
- (a) providing a chemical composition comprising polypropylene, said chemical composition having an MFI in the range of between about 13 and about 35 grams/10 minutes, according to ASTM D 1238, said chemical composition further comprising a nucleating agent, said nucleating agent comprising at least in part 1,3-O-2,4-bis(3,4-dimethylbenzylidene) sorbitol (DMDBS) or derivatives thereof;
- (b) injecting said chemical composition into a mold at a fill rate of between about 5 and about 22 grams of chemical composition per second;
- (c) forming said chemical composition into a preform article, said preform article having a side wall thickness of between about 2 mm and about 4 mm; and
 - (d) removing said preform article from said mold.
- 54. (Withdrawn) A preform article formed according to the process of claim 53.
- 55. (Withdrawn) The process of claim 53 wherein further comprising the steps of:
 - (e) reheating said preform article; and
 - (f) stretch blow molding said preform article to form a container.
- 56. (Currently Amended) In a two stage process of injection stretch blow molding polypropylene, the steps of:
- (a) providing a chemical composition comprising polypropylene and a nucleating agent, said chemical composition having a melt flow index in the range of between about 13 and about 50 grams/10 minutes according to ASTM D 1238, and said nucleating agent being selected from the group consisting of dibenzylidene sorbitols compounds;
- (b) injecting said chemical composition into a mold at a fill rate of greater than about 5 grams of chemical composition per second;

- (c) forming said chemical composition into a preform article, said preform article having a closed end connected to a side wall, said perform preform side wall having a thickness in the range of about 2-4 mm;
 - (d) removing said preform article from said mold;
 - (e) subsequently reheating said preform article; and
- (f) stretch blow molding said reheated preform article to form a container, wherein said container has at least one side wall having a side wall thickness, wherein the percent haze to thickness ratio of said container side wall is less than about 0.4 percent haze/ mil.
- 57. (Previously Presented) The process of claim 56 wherein said injection step (b) provides said chemical composition into said mold at a fill rate in the range of about 5 22 grams/second.
- 58. (Previously Presented) The process of claim 56 wherein said chemical composition comprises an ethylene/propylene copolymer.

59-60. (Canceled)

- 61. (Currently Amended) The process of claim [[59]] <u>56</u> wherein said nucleating agent comprises sodium 1,3-O-2,4-bis(4-methylbenzylidene) sorbitol and derivatives thereof.
- 62. (Currently Amended) The process of claim [[60]] <u>56</u> wherein said nucleating agent comprises a bis(3,4-dialkylbenzylidene) sorbitol acetal.
- 63. (Currently Amended) The process of claim [[60]] <u>56</u> wherein said nucleating agent comprises 1,3-O-2,4-bis(3,4-dimethylbenzylidene) sorbitol.
- 64. (Previously Presented) The process of claim 56 wherein said haze/thickness ratio of said container is less than about 0.3 percent haze/ mil.
- 65. (Previously Presented) The process of claim 56 wherein said haze/thickness ratio of said container is less than about 0.2 percent haze/ mil.

- 66. (Previously Presented) The process of claim 56 wherein said percent haze of said side wall of said container is less than about 6%.
- 67. (Previously Presented) The process of claim 66 wherein said container is about 10-20 mils in side wall thickness.
- 68. (Previously Presented) The process of claim 56 wherein said stretch blow molding step (f) is repeated successively in a manufacturing operation at a rate of container production of greater than about 900 containers per hour per mold.
- 69. (Previously Presented) The process of claim 56 wherein said stretch blow molding step (f) is repeated successively in a manufacturing operation at a rate of container production of at least about 1200 containers per hour per mold.
- 70. (Previously Presented) The process of claim 56 wherein said blow molding step (f) is repeated successively in a manufacturing operation at a rate of container production of at least about 1500 containers per hour per mold.
 - 71. (Withdrawn) A container formed by the process of claim 56.
- 72. (Currently Amended) In a two stage process of injection stretch blow molding polypropylene, the steps of:
- (a) providing a chemical composition comprising polypropylene and a nucleating agent, said chemical composition having a melt flow index in the range of about 13-35 grams/10 minutes according to ASTM D 1238, said nucleating agent being selected from the group consisting of dibenzylidene sorbitols compounds;
- (b) injecting said chemical composition into a mold at a fill rate in the range of about 5-22 grams of chemical composition per second;
- (c) forming said chemical composition into a preform article, said preform article having a closed end connected to a side wall, said perform preform side wall having a thickness in the range of about 2-4 mm;
 - (d) removing said preform article from said mold;
 - (e) subsequently reheating said preform article; and

(f) stretch blow molding said reheated preform article to form a container, wherein said container has at least one side wall having a side wall thickness, wherein the percent haze to thickness ratio of said container side wall is less than about 0.4 percent haze/ mil.

73-74. (Canceled)

- 75. (Previously Presented) The process of claim 72 wherein said nucleating agent comprises sodium 1,3-O-2,4-bis(4-methylbenzylidene) sorbitol and derivatives thereof.
- 76. (Currently Amended) The process of claim 72 wherein said nucleating agent comprises <u>a</u> bis(3,4-dialkylbenzylidene) sorbitol acetal.
- 77. (Previously Presented) The process of claim 72 wherein said nucleating agent comprises 1,3-O-2,4-bis(3,4-dimethylbenzylidene) sorbitol.
- 78. (Previously Presented) The process of claim 72 wherein said haze/thickness ratio of said container is less than about 0.3 percent haze/ mil.
- 79. (Previously Presented) The process of claim 72 wherein said haze/thickness ratio of said container is less than about 0.2 percent haze/ mil.
- 80. (Previously Presented) The process of claim 72 wherein said percent haze of said side wall of said container is less than about 6%.
- 81. (Previously Presented) The process of claim 72 wherein said container is about 10-20 mils in side wall thickness.
- 82. (Previously Presented) The process of claim 72 wherein said stretch blow molding step (f) is repeated successively in a manufacturing operation at a rate of container production of greater than about 900 containers per hour per mold.

- 83. (Previously Presented) The process of claim 72 wherein said stretch blow molding step (f) is repeated successively in a manufacturing operation at a rate of container production of at least about 1200 containers per hour per mold.
- 84. (Previously Presented) The process of claim 72 wherein said blow molding step (f) is repeated successively in a manufacturing operation at a rate of container production of at least about 1500 containers per hour per mold.
 - 85. (Withdrawn) A container formed by the process of claim 72.
- 86. (Previously Presented) The process of claim 72 wherein said preform side wall thickness of step (c) is about 2 mm.
- 87. (Previously Presented) The process of claim 72 wherein said preform side wall thickness of step (c) is about 3 mm.
- 88. (Previously Presented) The process of claim 72 wherein said preform side wall thickness of step (c) is about 4 mm.
 - 89. (Previously Presented) A process comprising the steps of:
- (a) providing a chemical composition comprising polypropylene, said chemical composition having an MFI in the range of between about 13 and about 35 grams/10 minutes according to ASTM D 1238, said chemical composition further comprising a nucleating agent, said nucleating agent comprising at least in part a dimethyl dibenzylidene sorbitol compound;
- (b) injecting said chemical composition into a mold at a fill rate of between about 5 and about 22 grams of chemical composition per second;
- (c) forming said chemical composition into a preform article, said preform article having a wall thickness of between about 2 mm and about 4 mm; and
 - (d) removing said preform article from said mold; and
 - (e) subsequently reheating said preform article; and
 - (f) stretch blow molding said reheated preform article to form a container.

- 90. (Previously Presented) The process of claim 89 wherein said wherein said container has at least one side wall having a side wall thickness, wherein the percent haze to thickness ratio of said container side wall is less than about 0.4 percent haze/ mil.
- 91. (Previously Presented) The process of claim 90 wherein said haze/thickness ratio of said container is less than about 0.3 percent haze/ mil.
- 92. (Previously Presented) The process of claim 90 wherein said haze/thickness ratio of said container is less than about 0.2 percent haze/ mil.
- 93. (Previously Presented) The process of claim 90 wherein said percent haze of said side wall of said container is less than about 6%.
- 94. (Previously Presented) The process of claim 90 wherein said container is about 10-20 mils in side wall thickness.
- 95. (Previously Presented) The process of claim 89 wherein said stretch blow molding step (f) is repeated successively in a manufacturing operation at a rate of container production of greater than about 900 containers per hour per mold.
- 96. (Previously Presented) The process of claim 89 wherein said stretch blow molding step (f) is repeated successively in a manufacturing operation at a rate of container production of at least about 1200 containers per hour per mold.
- 97. (Previously Presented) The process of claim 89 wherein said blow molding step (f) is repeated successively in a manufacturing operation at a rate of container production of at least about 1500 containers per hour per mold.
 - 98. (Withdrawn) A container formed by the process of claim 89.